Approved for use through 07/31/2006. OMB 0651-0032

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	NOVAM40531		
First Inventor	Ledden		
Title	METHODS FOR TRANSMIT EXCITATION MAGNETIC RESONANCE IMAGING		
Express Mail Label No.	EV402171882US		

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commission P.O. Box 1	a VA 22313-1450			
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. See 37 CFR 1.27. The specification [Total Pages 31] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description	ii. Paper	Sequence Submission Form (CRF) Ince Listing on: ID-R (2 copies); or g identity of above copies			
- Claim(s)	ACCOMPANYING AF	PLICATION PARTS			
- Abstract of the Disclosure 4.	9. Assignment Papers (cov 37 CFR 3.73(b) Statemer (when there is an assign English Translation Document Information Disclosure Statement (IDS)/PTO-14 Preliminary Amendment (Should be specifically if Certified Copy of Priority (if foreign priority is claim Nonpublication Request (b)(2)(B)(i). Applicant moor its equivalent. 17. Assignment Papers (cov 37 Cov	ver sheet & document(s)) ent Power of nee) Attorney cument (if applicable) Copies of IDS 449 Citations t d (MPEP 503) itemized) y Document(s) med) t under 35 U.S.C. 122 ust attach form PTO/SB/35 losure Document ntion request			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:					
Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.					
19. CORRESPONDENCE ADDRESS					
Customer Number: 02158	OR Corre	espondence address below			
Name					
Address					
City	State	Zip Code			
Country Te	elephone	Fax			
Name (Print/Type) Steven K. Mantin	Trogionation rio. (r.morrio), rigo,	38,542 Date 11/20/2003			
	1	11/20/2003			

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANS	LATTINA	Complete if Known		
FEE IRANS	DIVITIAL	Application Number		
for FY 2004 Effective 10/01/2003. Patent fees are subject to annual revision.		Filing Date		
		First Named Inventor	Ledden	
		Examiner Name		
Applicant claims small entity status. See 37 CFR 1.27		Art Unit		
TOTAL AMOUNT OF PAYMENT	(\$) 425	Attorney Docket No.	NOVAM40531	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)			
Check Credit card Money Other None	3. ADDITIONAL FEES			
Order Order	Large Entity Small Entity			
Denosit	Fee Fee Fee Fee Description			
Account 13-4630	Code (\$) Code (\$) Fee 1051 130 2051 65 Surcharge - late filing fee or oath	e Paid		
Number Deposit	1052 50 2052 25 Surcharge - late provisional filing fee or			
Account Name Altman & Martin	cover sheet			
The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification			
Charge fee(s) indicated below				
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action			
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action			
	1251 110 2251 55 Extension for reply within first month			
FEE CALCULATION	1252 420 2252 210 Extension for reply within second month			
1. BASIC FILING FEE Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month			
Fee Fee Fee Fee Description Fee Paid	1254 1,480 2254 740 Extension for reply within fourth month			
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255 2,010 2255 1,005 Extension for reply within fifth month			
1002 340 2002 170 Design filing fee 385	1401 330 2401 165 Notice of Appeal			
1003 530 2003 265 Plant filing fee	1 1402 330 2402 165 Filing a brief in support of an appeal			
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing			
1005 160 2005 80 Provisional filing fee .	1451 1,510 1451 1,510 Petition to institute a public use proceeding			
SUBTOTAL (1) (\$) 385	1452 110 2452 55 Petition to revive - unavoidable			
,, (,,	1453 1,330 2453 665 Petition to revive - unintentional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	E 1501 1,330 2501 665 Utility issue fee (or reissue)			
Extra Claims below Fee Paid				
Total Claims	1503 640 2503 320 Plant issue fee			
Claims	1460 130 1460 130 Petitions to the Commissioner			
Multiple Dependent =	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)			
Large Entity Small Entity Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt			
Code (\$) Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)	40		
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809 770 2809 385 Filing a submission after final rejection			
1203 290 2203 145 Multiple dependent claim, if not paid	(37 CFR 1.129(a)) 1810 770 2810 385 For each additional invention to be			
1204 86 2204 43 ** Reissue independent claims	examined (37 CFR 1.129(b))			
over original patent	1801 770 2801 385 Request for Continued Examination (RCE)			
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application			
SUBTOTAL (2) (\$) 0	Other fee (specify)			
**or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40				

SUBMITTED BY			·			(Complete (if	applicable))
Name (Print/Type)	Steven K. M.	artin	Λ Λ.	Registration No. (Attorney/Agent)	38,542	Telephone	617-523-3515
Signature	d	911	16/~			Date	11/20/2003

WARNING: Information on this form may become public. Credit card information should not be included on this f rm. Pr vide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor		Ledden		
Title	Title METHODS FOR TRANSMIT EXCITATION IN MAGNETIC RESONANCE IMAGING			
Atty Docket Number		NOVAM40531		

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

11/20/2003

Date

Signature

Steven K. Martin

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Attorney Docket: NOVAM40531

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Ledden

Title:

METHODS FOR TRANSMIT EXCITATION IN MAGNETIC RESONANCE IMAGING USING A TRANSMIT PULSE WITH

TIME VARYING SPATIAL CHARACTERISTICS

Boston, Massachusetts
Date: November 20, 2003

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

RETENTION OF DISCLOSURE DOCUMENT

Please retain the following Disclosure Document beyond the normal two-year period:

Title: Uniform Transmit Excitation System for High Field MRI Scanners

Number: 519272

Date of Receipt: October 4, 2002

This Disclosure Document is related to the patent application enclosed herewith.

Respectfully submitted, ALTMAN & MARTIN

- Steven K. Martin

Registration No. 38,542